

Structural Engineers, Architects &
Project Management Consultants



To,

PROJECT SUB DIVISION

BBMP

BANGALORE

Dear Sir,

Sub: M/s. Rudraprasad Consultants Services for the work of "CONSTRUCTION OF OPEN AIR THEATER AT WARD NO.07 IN BYATARAYANAPURA ASSEMBLY CONSTITUENCY"

Ref: 1. Work Order No: EE(Project)/Ynk Zone/WO/11/2021-22

2. Job code: 007-20-000033

We are here with forwarding to Sri S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala Hobli, Banagalore-562149. Second & Part Bill duly verified and certified that the work is satisfactory and for a Gross Value of Rs. 1,15,46,678.00/- (Rs. One Crore Fifteen Lakhs Forty Six Thousand Six Hundred and Seventy Eight Only). First and Part bill for Rs. 59,02,817.00/- were previously submitted & the total bill amount submitted till date being Rs. 1,73,93,280.00/(Rs. One Crore Seventy Three Lakhs Ninety Three Thousand Two Hundred and Eighty Only).

Thanking you,

Yours faithfully,



For Rudraprasad Consultants

R. KARTHIK RECHAN B.E., M.S (U.S.A)
PRINCIPAL CONSULTANT
RUDRAPRASAD CONSULTANTS

Attachments PMC Compliance report

V/S
 Shri Anjanappa,
 P.E. - Mysore
 with 9 P.T. up along
 bill file
 R. plan 05/06/2023

Asst. Executive Engineer
 Project Division
 Yelahanka Zone
 MP, Bangalore - 92

#3, 7th Main Malleswaram, Bangalore – 560003

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NAME OF WORK:- CONSTRUCTION OF OPEN AIR THEATER AT WARD NO.07 IN BYATARAYANAPURA ASSEMBLY CONSTITUENCY

Name of Client : EXECUTIVE ENGINEER, PROJECT DIVISION, BBMP, BANGALORE

Contractor/ Agency: Sri S D Venkatesh Gowda, #151, Santhanur Village, Bagalur Post, Jala
Hobli, Banagalore-562149

Total Cost : Rs. 1,15,46,678.00/-

Date Of Inspection : 05-06-23

Status Of Bill : Second & Part Bill

In the Presence of : a) Assistant Engineer Ward No -07, Projecct division, BBMP, Bangalore
b) R. Karthik Rechan, Partner, M/S RUDRAPRASAD CONSULTANTS,
BANGALORE

PMC COMPLIANCE REPORT		
Sl. No.	Description of work	Comments/Observations
2	KSRB 2-2.2 Earthwork excavation by manual means for foundation of buildings, culverts, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
4	KSRB 4-1.3 Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85 cum and fine aggretes @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, including cost of all materials,labour, HOM of machinery,curing complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory



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5	KSRB 4.2.1 Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregates @ 0.47cum, with super plasticisers @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, column pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths, etc.., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
6	KSRB 2.3 Filling available excavated earth (excluding rock) in sides of foundations upto plinth layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
7	KSRB 5.2.2 Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at 2 m. apart in each course including cost of materials, labour, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory



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8	KSRB 4.2.7 Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70 cum and fine aggregates @ 0.47 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths, etc.., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
9	KSRB 4-6.1 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons.	Work done upto the Billed Quantity and the Quality is satisfactory
10	KSRB 4-6.7 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.	Work done upto the Billed Quantity and the Quality is satisfactory
11	KSRB 4-6.5 Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton.	Work done upto the Billed Quantity and the Quality is satisfactory
12	KSRB 4-6.2 Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness above 200 mm including cost of all materials, labour complete as per specificaiton	Work done upto the Billed Quantity and the Quality is satisfactory



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15	KSRB 4.9.2 Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
16	KSRB 5-14 Providing and constructing non load bearing wall with solid concrete blocks having a block density not less than 1800kg/m ³ having a minimum average compressive strength of 4.00 N/mm ² confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No. 5.4 with solid concrete blocks of size 40X20X20cm	Work done upto the Billed Quantity and the Quality is satisfactory
18	Providing and fixing granite flooring in combination of 19mm thick (Avg) gang saw water cut LAKARED granite with 86% and with 14% of 19mm thick (avg) Black granite in CM 1:4 proportion with a coat of rough plastering using CM 1:4, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing etc., complete including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory



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19	Mineral Fiber acoustic suspended ceiling : Providing and laying of world class mineral acoustic ceiling panels of as per the following specification:- Tile of approved make Mineral Acoustic ceiling panels of size 595x595mm-12mm thick suitable for use in arrears up to 40 C and RH 70UR as per manufacturer. Tile have 15 min fire retardant and does not contain asbestos/urea formaldehyde, Technical details of New Modena are- Thermal conductivity Non-disposable, Light Reflection 80% fire resistance Non-resistance Non-disposable. Mineral fiber ceiling panels are placed inside the grid work.	Work done upto the Billed Quantity and the Quality is satisfactory
20	Providing and fixing of wall cladding using 20mm thick gang saw water cut Shiva gold granite, grey granite in CM 1:3 proportion cut to required shape, pattern with paper joints, finished with cement mortal using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mmx12mm grooves in joints including curing etc., complete.	Work done upto the Billed Quantity and the Quality is satisfactory
21	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite @ 66%, 20 mm thick grey granite @ 20%, 20mm thick, 20mm thick black granite 14%. The granite materials are laid on existing bed of CM 1:3 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide curing etc., complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory
22	KSRB 14.14-5 : Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications. Specification No. KBS, (Ceramic anti skid Tiles of size 400 x 400mm on a bed of 20 mm thick).	Work done upto the Billed Quantity and the Quality is satisfactory



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23	KSRB 14-17.1: Providing skirting, dado, rises of steps with White glazed tiles 20x20cms 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over existing rough plaster surface using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
24	KSRB9.4.1-Providing Math/Nandi wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought framed or assembled including making plaster grooves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
25	KSRB 9.5-3 : Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures)	Work done upto the Billed Quantity and the Quality is satisfactory
26	Supply and fixing of door frame made of hollow extruded PVC Section (Nandi or Equivalent) having dimension of 40x57mm with the wall thickness of 2mm +/-0.2mm duly reinforced with seasoned wood plank at the hinges side. The door frame top 2 corners shall be metric cut/ welded..	Work done upto the Billed Quantity and the Quality is satisfactory
27	Providing fixtures with made brass /SS CP of approved quality for Main doors, Internal and Toilet doors,), (Hinges 5" heavy duty, Door Lock, Tower Bolt 300mm long, Aluminum handles - 15cms, Locking Arrangements, 40mm Screws"). (Material Components)	Work done upto the Billed Quantity and the Quality is satisfactory

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28	SOLID PANEL PVC DOOR SHUTTER Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm fro styles and 15x15mm for top & bottom rails, covered with heat moulded PVC channel of 5mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the styles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 m.m Aluminium hinges.	Work done upto the Billed Quantity and the Quality is satisfactory
30	KSRB15-3 : Providing 18mm thick cement plaster in single coat with cement mortar 1:6 to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
32	Providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, cost of labour and scaffolding etc., complete as per the specification. Area to be considered - a) 100% for fresh surface, b) Upto 10 % for repainting.	Work done upto the Billed Quantity and the Quality is satisfactory
33	KSRB 15-15.1: Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specification - do with primer.	Work done upto the Billed Quantity and the Quality is satisfactory



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34	KSRB15-16.2: Providing and finishing external walls with in two coats with water proof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortardrops and other foreign matter cost of material labour complete as per specifications with primer.	Work done upto the Billed Quantity and the Quality is satisfactory
35	KSRB 15-17.4 : Applying priming coat over new wood surface and/or wood based surface, after brushing with ready mix enamel priming paint including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
36	KSRB 15-17.16 : Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with coal tor paint to give even shade after cleaning the surface of all durts,dust,and foreign matter, including cost of materials, labour, complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory
37	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
38	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory



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39	KSRB 7.10 : Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenoned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS using aluminium section anodized to 12 - 15 microns.	Work done upto the Billed Quantity and the Quality is satisfactory
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41	KSRB 10-3 : Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment. (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs. (c) After two days of proper curing, applying a second coat of cement slurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
42	KSRB 11-1 : Providing and fixing white vitreous china clay, water closet Indian type (Squatting pan) of size 580mm with footrests, 100mm S or P trap, 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets, 32mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory



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43	KSRB 11-a: Providing & fixing white vitreous china clay, water closet European type (Pedestal type, 8-Trap) with black solid plastic seat and lid, C.P. Brass hinges, rubber buffers, 10 litre white glazed / vitreous china clay low level flushing cistern (all are approved make) with fittings C.I. / M.S. Brackets, 40 mm diameter flush bend fittings and clamps over flow arrangement with specials and 25 mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
44	KSRB 11-11.4: Providing and fixing white vitreous china clay, flat back wash basin size 550x400mm with a single 15mm C.P. brass pillar tap with C.I. / M.S. brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
45	KSRB 11-7.1: Providing and fixing white vitreous china clay, flat back, lipped front urinal basin of 430x260x350mm with 5 litres PVC automatic flushing cistern, C.I. / M.S. brackets, standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
46	KSRB 13-6,1-2: Providing and fixing in position brass bib cock of approved quality 25 mm dia nominal bore including cost of materials, labour HOM of equipments with all leads complete with specifications	Work done upto the Billed Quantity and the Quality is satisfactory
47	Providing and fixing to wall, ceiling and floor unplasticised PVC 6kgs/sqm working pressure with pipe fittings, wall clips etc. and making good the wall, ceiling and floor for sanitary pipe lines including cost of all materials, labour HOM of acquirements and testing complete as per specifications. a) 110 mm dia	Work done upto the Billed Quantity and the Quality is satisfactory

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48	Providing and fixing to wall, ceiling and floor unplasticised PVC 6kgs/sqm working pressure with pipe fittings, wall clips etc. and making good the wall, ceiling and floor for sanitary pipe lines including cost of all materials, labour HOM of acquirments and testing complete as per specifications.b) 140 mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
49	Providing and fixing rigid PVC bend of required degree (of approved make) for S.W.R. drainage pipes of approved including lubricating.	Work done upto the Billed Quantity and the Quality is satisfactory
50	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in CC 1:2:4 as per directions of 12.5cms x 7.5cms (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).	Work done upto the Billed Quantity and the Quality is satisfactory
52	KSRB 12-5.3 : Constructing brick masonry circular type manhole 1.22 m internal dia at bottom, 1.68 m deep and 0.56m dia at top, with table moulded and non modular bricks of class designation 50 in cement mortar 1:4, inside cement plaster 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and down size granite metal and making necessary channel in cement concrete M 15 with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter confirming to IS :12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete M 15 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately)	Work done upto the Billed Quantity and the Quality is satisfactory

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55	Providing and fixing CPVC pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mt spacing. This includes jointing of pipes and fittings with one step CPVC Solvent cement and cost of cutting chases and making good the same including testing of joints complete (concealed work including cutting chases and good the walls etc.) 25mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
56	KSRB-13-6.2-4 Providing and fixing in position brass stop cock of approved quality 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
57	Providing and fixing in position brass gate valve with C.I. Wheel of approved quality (screed end) 5 mm nominal bore including cost of all materials, labour, HOM of equipments with all lead, complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
58	KSRB 2 - 2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m. and above in width, in ordinary soil not exceeding 1.5m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
59	KSRB 12-1.2 : Providing and laying in position to required level or slope 150mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints, including cost of materials, labour charges complete as per specifications. Specification	Work done upto the Billed Quantity and the Quality is satisfactory
60	Refilling available earth around the pipeline, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50 m and lift upto 1.5m including cost of all labour complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory



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61	Providing stoneware gully trap of approved quality and make fixing in-m-15 and plastering with CM 1:3 wherever necessary. (Rate includes cost of all materials, fixtures and lead). (15cms x 10cms)	Work done upto the Billed Quantity and the Quality is satisfactory
63	KSRB - 13-7-1.4 Providing and fixing 50mm dia nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
64	KSRB - 13-11.1 Providing and placing on terrace, polyethylene water storage tanks (1000 ltr capacity)	Work done upto the Billed Quantity and the Quality is satisfactory
71	Open Conduit System Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20mm dia 2mm thick	Work done upto the Billed Quantity and the Quality is satisfactory
72	Open Conduit System Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. b) 25mm dia 2mm thick	Work done upto the Billed Quantity and the Quality is satisfactory
73	Concealed Conduit System: Supplying heavy gauge PVC conduit pipe ...mm dia ...mm thick confirming to IS 2509 with suitable size bends, Metal/PVC junction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary. (Page No. 2, Item No. 1.2.1 & 1.2.2)a) 19/20mm dia 2mm thicka) 19/20mm dia 2mm thick	Work done upto the Billed Quantity and the Quality is satisfactory

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74	Concealed Conduit System: Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick confirming to IS 2509 with suitable size bends, Metal/PVC junction boxes, adhesive paste etc, and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures run with 18SWG GI fish wire where ever necessary. (Page No. 2, Item No.1.2.1 & 1.2.2)a) 19/20mm dia 2mm thickb) 25mm dia 2mm thick	Work done upto the Billed Quantity and the Quality is satisfactory
75	Groove Cutting : Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick with suitable size bends, Metal/PVC junction boxes, adhesive paste etc, by groove cutting in wall and fixing by using U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire through out the conduit where ever necessary.a) 19/20mm dia 2mm thick	Work done upto the Billed Quantity and the Quality is satisfactory
76	Groove Cutting : Supplying heavy guage PVC conduit pipe ...mm dia ...mm thick with suitable size bends, Metal/PVC junction boxes, adhesive paste etc, by groove cutting in wall and fixing by using U or J hooks and cement plastering up to the wall surface and run with 18SWG GI fish wire through out the conduit where ever necessary.b) 25mm dia 2mm thick	Work done upto the Billed Quantity and the Quality is satisfactory
77	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C walla) 1-3Way	Work done upto the Billed Quantity and the Quality is satisfactory
78	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wallb) 4-5Way	Work done upto the Billed Quantity and the Quality is satisfactory
79	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wallc) 6Way	Work done upto the Billed Quantity and the Quality is satisfactory



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81	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C walle) 10-12Way	Work done upto the Billed Quantity and the Quality is satisfactory
82	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.a) 1-3Way	Work done upto the Billed Quantity and the Quality is satisfactory
83	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.b) 4-5Way	Work done upto the Billed Quantity and the Quality is satisfactory
84	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.c) 6Way	Work done upto the Billed Quantity and the Quality is satisfactory
86	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.e) 10-12Way	Work done upto the Billed Quantity and the Quality is satisfactory
87	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. a) 6Amps one way	Work done upto the Billed Quantity and the Quality is satisfactory
88	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. b) 6Amps 3way socket	Work done upto the Billed Quantity and the Quality is satisfactory
89	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. c) Stepped Fan Regulator	Work done upto the Billed Quantity and the Quality is satisfactory



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90	supplying and wiring adapting long system in existing PVC conduit / casing carrying using 1100v grade copper conductor flexible multistrand FRLS PVC insulated 2 x1.5sqmm cable conforming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC round block complete for each outlet. Approx point up to 3Mtr from tapping point to out let via switch box	Work done upto the Billed Quantity and the Quality is satisfactory
91	supplying and wiring adapting long system in existing PVC conduit / casing carrying using 1100v grade copper conductor flexible multistrand FRLS PVC insulated 2 x1.5sqmm cable conforming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC round block complete for each outlet.b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box	Work done upto the Billed Quantity and the Quality is satisfactory
92	c) Long point above 6Mtr up to 10Mtr from tapping point to out let via switch box	Work done upto the Billed Quantity and the Quality is satisfactory
93	d) Two Outlet in a row, above 3.0M upto 6.0M from tapping point to outlet via switch box.	Work done upto the Billed Quantity and the Quality is satisfactory
94	e) Three Outlet in a row, above 6.0M upto 10.0M from tapping point to outlet via switch box.	Work done upto the Billed Quantity and the Quality is satisfactory
95	Supplying and fixing metal Fan box with Round Hook.	Work done upto the Billed Quantity and the Quality is satisfactory
96	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A .1.5	Work done upto the Billed Quantity and the Quality is satisfactory
97	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A .2.5 sqmm	Work done upto the Billed Quantity and the Quality is satisfactory



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99	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A . 6 sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
100	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A . 10 sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
103	Supplying, fixing and wiring eaarth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board. 6-32Amps SP	Work done upto the Billed Quantity and the Quality is satisfactory
104	Supplying, fixing and wiring eaarth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board. 6-32Amps TPN	Work done upto the Billed Quantity and the Quality is satisfactory
105	Supplying, fixing and wiring eaarth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board	Work done upto the Billed Quantity and the Quality is satisfactory
107	Supplying amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenoliciFRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 100Amps 4x30x6mm Aluminum Strips	Work done upto the Billed Quantity and the Quality is satisfactory
109	Supplying fixing angle iron frame work fabricated out of M.S angle iron .. And m.S flat.... With bolts, washers etc., and painted with two coats of red oxide and then two coats of approved paint.b) 50x100x50x6 mm	Work done upto the Billed Quantity and the Quality is satisfactory



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110	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu= Ics) FOUR POLE 100Amps 25kA	Work done upto the Billed Quantity and the Quality is satisfactory
111	Supplying of multi function digital meter with three line backlight LCD type display for voltage, current frequency, power, power factor, KVA, KWH, KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication port and class 0.5s accuracy	Work done upto the Billed Quantity and the Quality is satisfactory
112	Supplying, fixing and wiring 0 to 600Volts 96x96mm AC Voltmeter on existing panel/wood board.	Work done upto the Billed Quantity and the Quality is satisfactory
113	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound	Work done upto the Billed Quantity and the Quality is satisfactory
114	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C (	Work done upto the Billed Quantity and the Quality is satisfactory
115	Supplying of on over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply. 125Amps	Work done upto the Billed Quantity and the Quality is satisfactory
116	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) 63mm dia	Work done upto the Billed Quantity and the Quality is satisfactory
117	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 50 sqmm Long Barrel	Work done upto the Billed Quantity and the Quality is satisfactory
121	Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor > 0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fitting 2x4' - 20/22 watts	Work done upto the Billed Quantity and the Quality is satisfactory



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129	LED Light fixture with W System Power consumption. LED Efficiency >130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II 200 Watts	Work done upto the Billed Quantity and the Quality is satisfactory
131	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD < 15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency > 75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition. LED modular down light 2'x2'-36 watts	Work done upto the Billed Quantity and the Quality is satisfactory



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132	Supply of 2'x2' LED recessed luminaire with ... Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD < 15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency > 75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition .LED modular down light 2'x2'-55 watts	Work done upto the Billed Quantity and the Quality is satisfactory
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136	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. A) 4 core 16 sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
149	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
150	Fabricating providing and erecting in position of MS hot dipped galvanised sq hollow pipes of 132X132 heavy gauge length 3000mm with MS hot dipped galvanised grill work as per approved design and drawing of chief architect using 12X75mm galvanised flat for alround frame and 20X20 mm galvanised forgedornamental arrowhead in top and bottom the work, including welding, grinding finishing 2 coats of anticorrosive paint over one coat of metal paint, as per direction of engineer incharge	Work done upto the Billed Quantity and the Quality is satisfactory



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136	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. A) 4 core 16 sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
149	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs. with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications.	Work done upto the Billed Quantity and the Quality is satisfactory
150	Fabricating providing and erecting in position of MS hot dipped galvanised sq hollow pipes of 132X132 heavy gauge length 3000mm with MS hot dipped galvanised grill work as per approved design and drawing of chief architect using 12X75mm galvanised flat for alround frame and 20X20 mm galvanised forgedornamental arrowhead in top and bottom the work, including welding, grinding finishing 2 coats of anticorrosive paint over one coat of metal paint, as per direction of engineer incharge	Work done upto the Billed Quantity and the Quality is satisfactory



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151	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm X 50mm 14 gauge M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm X 6mm and 16 X 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mm X 6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification.	Work done upto the Billed Quantity and the Quality is satisfactory
152	Providing and laying Hassan Green granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 line grooves not more than 2 mm wide for antiskidding, curing etc., complete.	Work done upto the Billed Quantity and the Quality is satisfactory
153	KSRB 14.6-2 : Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification	Work done upto the Billed Quantity and the Quality is satisfactory
170	Supplying and flush polished wood board with out front front plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on fixing the same to the wall using tapered inverted wooden plugs screws etc.	Work done upto the Billed Quantity and the Quality is satisfactory



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171	Supplying of 1.1 KV 1.1 UG cable having aluminium conductor PVC insulated sheathed, EXTREDED INNER SHEATHED galvanised steel, strip conforming IS 1075:1990 AND extruded PVC outer sheathing armoured cable IS 1354 part 1:1998 and conforming to GTP of group.	Work done upto the Billed Quantity and the Quality is satisfactory
172	Labour charges for laying of 1.1 K.V class UG cable, P No. 41 / I No. 6.5.1 In existing trench/direct (6Sqmm to 16 Sqmm)	Work done upto the Billed Quantity and the Quality is satisfactory
173	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete	Work done upto the Billed Quantity and the Quality is satisfactory
174	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class	Work done upto the Billed Quantity and the Quality is satisfactory
175	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.,	Work done upto the Billed Quantity and the Quality is satisfactory
176	Supplying, fixing, wiring, earth electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150 mm around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 through holes of 122 mm dia.	Work done upto the Billed Quantity and the Quality is satisfactory
177	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete....	Work done upto the Billed Quantity and the Quality is satisfactory
178	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete....	Work done upto the Billed Quantity and the Quality is satisfactory



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179	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing material wiring complete as required 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
180	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility.	Work done upto the Billed Quantity and the Quality is satisfactory
181	KSRB 13-7.1-5: Providing and fixing in position 65mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications	Work done upto the Billed Quantity and the Quality is satisfactory
182	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.	Work done upto the Billed Quantity and the Quality is satisfactory
183	Gate valve 65mm nominal bore gun metal	Work done upto the Billed Quantity and the Quality is satisfactory



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184	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset.	Work done upto the Billed Quantity and the Quality is satisfactory
195	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.	Work done upto the Billed Quantity and the Quality is satisfactory
196	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8	Work done upto the Billed Quantity and the Quality is satisfactory



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210	Supply and fixing of single skin kalzip roofing systems of 65/400, 0.9mm thick Aluminium standing seam roof sheets. The sheets comprise of Profiled sheeting of Aluminium self-supported standing seam roof system manufactured from Aluminium alloy AA 3004, minimum material thickness of 0.9mm and PVDF finishing RAL 9006 on the exposed surface with ST clips and necessary accessories. Structure: (i) Supplying, cutting, bending and fabricating hot rolled plates, sag rods, brackings and connection bolts to form a column, truss with base plates and purlins. (ii) Erection of the above truss work structure at required height. (iii) Providing and applying one coat of red oxide primer and two coats of synthetic enamel paint. The scope of work includes a) Design, Engineering, Fabrication and erection of steel structure, roof sheeting and facade system. b) Supply and installation of flashing, capping, screws and all other necessary accessories.	Work done upto the Billed Quantity and the Quality is satisfactory
E2	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Work done upto the Billed Quantity and the Quality is satisfactory
E7	Providing 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand) including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge.	Work done upto the Billed Quantity and the Quality is satisfactory



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E8	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM etc., complete as per specification	Work done upto the Billed Quantity and the Quality is satisfactory
E9	Providing and fixing chlorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work). 40mm nominal OD pipes	Work done upto the Billed Quantity and the Quality is satisfactory
E10	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 10mm diameter	Work done upto the Billed Quantity and the Quality is satisfactory
E11	Supplying ...litres capacity vertical/horizontal type wall mounting Electrical water heater with 22 SWG copper/SS sheet metal inner Container tinned inside and anticorrosive paint outside and 20 SWG M.S. sheet metal outer cover filled with glass wool between inner and outer container for thermal insulation complete. The inlet and outlet pipes so arranged that water flow inside results in water to flow out from the inner container without turbulence. The Inner container shall have direct immersion type copper tube nickel plate .2KW capacity element with a neon indicator fitted with 20A capacity 25 to 85 degree Centigrade range thermostat. The water heater shall completely be wired with 40/0.0076 inch 3 core copper flexible wire of 1.5 meters length and the outer container provided with heavy gauge brackets for wall mounting. 25Litres	Work done upto the Billed Quantity and the Quality is satisfactory



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E12	Supplying & fixing - flexible LED Strip Light W Power consumption in 5mtrs length CCT 6500 degree K, CRI> 70%, efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver non integrated, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved with 2 years Warranty against any manufacturing defect working under standard electrical condition.	Work done upto the Billed Quantity and the Quality is satisfactory
E13	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 12" Sweep (300mm)	Work done upto the Billed Quantity and the Quality is satisfactory
E14	Supplying & fixing of retrofit type - LED bulb.....W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%, efficacy >80 lumen per watt, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. 9W, 6500K	Work done upto the Billed Quantity and the Quality is satisfactory



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E15	Acrylic Synthetic Paint for Basket Ball Court and PVC Flooring for Badminton Court. - Providing and Laying of ITF Certified 5 layers of Acrylic Synthetic Standard System including primer, Resurfacer and Approved colour and Line marking as per international standard. - Providing and Laying of PVC Sports Flooring of 6.5mm thick as per direction of Engineer in Charge. - Providing and Laying of Foam of 8.00 mm thick beneath PVC Sports Flooring as per direction of Engineer in Charge.	Work done upto the Billed Quantity and the Quality is satisfactory
E16	Providing and installing mirror, including cost of all materials like plywood, gum, screw, bedding etc., and all lead & lift, transportation and labour charges. The cost also includes all applicable taxes, complete as per direction of engineer in charge.	Work done upto the Billed Quantity and the Quality is satisfactory
E17	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Work done upto the Billed Quantity and the Quality is satisfactory
E18	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge. (For payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.	Work done upto the Billed Quantity and the Quality is satisfactory



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E19	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand Copper with low conductor resistance single core cable in open or concealed system of wiring with specified IS-694; conforming to latest amendments. 4 Sqmm	Work done upto the Billed Quantity and the Quality is satisfactory
E20	Supplying PVC ringite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for PVC pipes 110mm dia., 6 kg/sqcm & class 3	Work done upto the Billed Quantity and the Quality is satisfactory
E21	Supplying PVC ringite pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for PVC pipes 140mm dia., 6 kg/sqcm & class 3	Work done upto the Billed Quantity and the Quality is satisfactory

